

CLAIMS

- 1.- A system for detecting the access of one or more mobile subscribers, belonging to a home network (1) for mobile telephony, to a foreign network (3) for mobile telephony, and for storing information indicative thereof, the foreign network being one of a plurality of foreign networks (3) for mobile telephony connected to the home network (1) through a gateway (2), said gateway being arranged to provide communication with the mobile subscriber accessing the respective foreign network (3) and to provide for the transmission between the foreign network (3) and the home network (1), of signaling parameters including an indication of mobile subscribers entering/exiting the foreign network (3), as well as data regarding the foreign network (3) and data regarding the mobile subscriber, the home network (1) being arranged to activate an indication that said mobile subscriber is in the foreign network in response to said signaling parameters;
- characterized in that the system comprises
- processing means (4), connected between the gateway (2) and the home network (1), said processing means (4) being arranged to detect, on the basis of information circulating through the gateway (2), the signaling parameters including the indication of entrance/exit of the one or more mobile subscribers in/from the respective foreign network, the data regarding the foreign network and the data regarding the mobile subscriber, the processing means further being arranged to separate and send these data to analysis means (6) provided in the system for analyzing the data and for subsequently accessing storage means (7) provided in the system, said storage means (7) being arranged to store data identifying the subscribers entering/exiting a foreign network, the data regarding the foreign network and the data regarding the mobile subscribers in the foreign network, these parameters providing the system with information on which mobile subscribers are visiting a foreign network and which foreign network each mobile subscriber is in, the system being arranged to provide contracted services to the mobile subscribers in the foreign networks, using said information.
- 2.- A system according to claim 1, wherein the analysis means (6) are connected to a real time service module (8) and arranged to inform said real time service module (8) every time the analysis means detect an entrance/exit of a subscriber in a foreign network, in order to make it possible for the real time service module (8) to immediately provide real time services to the subscribers in a foreign network, without having to make prior consultations.

3.- A system according to any of claims 1 and 2, wherein the system further comprises an event-based service module (9) connected to an event generator (11) and arranged so that when the event generator (11) generates a service for subscribers located in foreign networks, the event-based service module (9) accesses  
5 the storage means (7) to obtain the information on which subscribers are located in foreign networks (3), in order to provide the service to said subscribers.

4.- A system according to claim 1, wherein the storage means (7) are arranged to contain data regarding features of each foreign network (3), in order to make it possible for the system to determine which network different received data belong to,  
10 and to adapt the contracted services to the features of the foreign network in which the subscriber is located.

5.- A system according to claim 2, wherein the analysis means (6) are arranged so that when said analysis means (6) detect an entrance of a subscriber into a foreign network, said analysis means consider that the subscriber has entered into a foreign  
15 network, storing this information in the storage means (7), updating the current subscriber location and communicating this to the real time service module (8).

6.- A system according to claim 2, wherein the analysis means (6) are arranged so that when said analysis means detect an exit of a subscriber from a foreign network (3), the analysis means (6) verify whether notification has been received that the  
20 subscriber has entered into another foreign network (3), the analysis means further being arranged so that:

if the result of the verification is affirmative, the analysis means consider that the subscriber has entered into another foreign network, storing this information and updating the current subscriber location in the storage means (7), and communicating  
25 this to the real time service module (8); whereas

if the result of the verification is negative, the analysis means consult the home network (1) to verify whether the subscriber has again entered the home network, and if an affirmative response is obtained, the analysis means eliminate the corresponding entry in the storage means (7) and report this to the real time service module.

30 7.- A system according to any one of the previous claims, wherein the storage means (7) are arranged to store a log of all the visits made by each subscriber to the foreign networks so as to permit consultation thereof by other systems.